

***FlyBy Math™* Alignment**
Mathematics Standards of Learning

Computation and Estimation

Standard

7.6 The student will use proportions to solve practical problems, which may include scale drawings, that contain rational numbers (whole numbers, fractions, and decimals) and percents.

***FlyBy Math™* Activities**

--Compare airspace scenarios for both the same and different starting conditions and the same and different rates.

Geometry

Standard

7.12 The student will identify and graph ordered pairs in the four quadrants of a coordinate plane.

***FlyBy Math™* Activities**

--Plot points on a schematic of a jet route, on a vertical line graph, and on a Cartesian coordinate system to describe the motion of two airplanes.

Probability and Statistics

Standard

7.18 The student will make inferences, conjectures, and predictions based on analysis of a set of data.

***FlyBy Math™* Activities**

--Use tables, bar graphs, line graphs, a Cartesian coordinate system, and equations to model aircraft conflicts and predict outcomes.

Patterns, Functions, and Algebra

Standard

7.19 The student will represent, analyze, and generalize a variety of patterns, including arithmetic sequences and geometric sequences, with tables, graphs, rules, and words in order to investigate and describe functional relationships.

***FlyBy Math™* Activities**

--Represent distance, speed, and time relationships for constant speed cases using tables, bar graphs, line graphs, equations, and a Cartesian coordinate system.

--Use tables, bar graphs, line graphs, a Cartesian coordinate system, and equations to model aircraft conflicts and predict outcomes.